

**NOAA's
NATIONAL WEATHER SERVICE
FISCAL YEAR 2004**

Version 1.1

**COST MANAGEMENT SYSTEM
IMPLEMENTATION GUIDE**

April 5, 2004

PREFACE

Fiscal Year 2004 represents the second year of agency-wide participation in NOAA's National Weather Service, hereafter referred to as NWS, Cost Management Program. The program was designed to help NWS more effectively and efficiently accomplish its mission. The labor survey process, in itself, helps improve managers' understanding of their staffs' efforts, thus enabling managers to focus staff on the organization's key objectives. New information on programmatic costs (e.g., outreach, IT security, environmental health and safety compliance) helped support recent budgetary and strategic management decisions. Information on specific facilities maintenance costs (e.g., snow removal and painting) stimulated further investigation into the practices leading to more efficient facilities operations. New operational cost information (e.g., for each NOAA Weather Radio transmitter) is helping managers identify higher cost operations for review. Improved information on the costs of providing services to other agencies is helping managers examine the need for more comprehensive reimbursements. Information on the costs of similar organizations is helping managers to assess the factors leading to greater cost efficiency.

As the Program matures, the benefits will continue to expand. Analyses of additional agency-wide, cross-year data will support greater longitudinal cost analyses. The integration of non-financial information (e.g., equipment, performance) over the coming year will help support more insightful analyses of management decisions, such as whether and when to repair or replace equipment. Initial, exploratory analyses of the relationship between costs and non-financial factors have demonstrated the program's ability to address critical management issues. Moreover, the program will support improved strategic decision-making by providing a link between strategic goals, programs, performance and costs.

In recognition of its innovative financial and program management approach, the NWS has been cited as a model of effective government management. The Cost Management Program recently received the NOAA Administrator's Award for its contributions to the NWS' effective and efficient management. The NWS, as a whole, was recognized by Government Executive Magazine for its good management practices. Most recently, the NWS was one of only a small group of Federal agencies to receive high marks on the Office of Management and Budget's (OMB's) Program Assessment Rating Tool. In so doing, the NWS was able to better support its budgetary requests throughout the appropriations process. In addition, the NWS was cited as an example of effective cost accounting practices at the Association of Government Accountant's recent national professional development conference.

Your continued support of the Cost Management Program will help the NWS to maintain and expand on its commitment to the effective and efficient use of its resources to accomplish the NWS mission.

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1. INTRODUCTION

This Cost Management Program Guide is intended to provide NWS managers and budget/administrative staff with the necessary guidance for reporting, accessing and using information in the NWS Cost Management System. The guide provides information on how to report labor and non-labor costs against cost objects, as well as how to access and use the data generated by the Program. The guide also includes a Quick Reference section containing a crosswalk of project codes to cost objects and a set of frequently asked questions to give users an easy means of identifying the relationship between project codes and cost objects and obtaining clarification on the more common cost management issues. The final section of the guide contains phone numbers and email addresses for the Program contacts.

Fiscal Year 2004 appropriation changes required updates in NWS program and project codes in order to match the new budget structure. The Fiscal Year 2004 appropriation moved NWS' Base and Systems ORF accounts to Salaries, Benefits, and Expenses (S&E) formerly referred to as Base or non-PPA. It also added the aviation line to S&E. PPAs remained as separate programs, but required new codes as well. Existing PAC program and project codes remained unchanged, with new codes assigned to new PAC programs only.

Changes to the Cost Management Program have been kept to a minimum in order to provide continuity in the data and minimize implementation burden. Only one new cost object has been added, "Facilities Physical Security". Other changes to the guide reflect clarifications to address issues raised during the prior year. While most of these changes represent minor modifications or expansions to cost object definitions, the guidance provided regarding reporting of former "Management Fund" costs, now referred to as Management and Administration, represents a clarification of previous guidance.

2. THE NWS COST MANAGEMENT SYSTEM

The NWS Cost Management Program collects information on costs along programmatic dimensions and makes this information available to managers through a web-based data warehouse. Labor cost data is obtained through quarterly, web-based surveys completed by NWS managers and combined with actual labor costs from NOAA's financial system. Non-labor cost data is obtained through use of an expanded set of codes for entering costs into the financial system. The resulting data for each NWS organization is incorporated into the NWS data warehouse, where managers can view a suite of pre-defined reports, "drill-down" into the data, and create *ad-hoc* reports to assist in program management decisions.

The Program was developed and implemented over the last few years, with FY 2003 being the initial year of NWS-wide reporting. The Program's initial data structure was developed in FY 1999, with extensive involvement by the NWS Central Region. In FY

2000, the Central Region piloted the data structure and the web-based labor data collection approach (i.e. the Labor Survey). The Program was phased-in across all NWS regions in FY 2001. During FY 2002, the regional data structure was modified to reflect all the NWS' programs. In addition, the resulting data was incorporated into the NWS data warehouse and standard reports, as well as *ad-hoc* reporting capabilities, were developed.

Rather than tracking costs by budget or funding source, cost management focuses on what and where resources are spent. Cost management seeks to:

- Identify resources (costs) used to run an organization or program,
- Assign those resources (costs) to products and/or services (outputs), and
- Use the cost by product or service information to manage operations.

By connecting costs to outputs a cost management system provides managers with data to assist in analyzing operations and determining where cost effective improvements may be made.

The lowest level at which costs are accumulated is the Cost Object. A cost object is a grouping of activities for which specific data is to be reported. Cost Objects are grouped into nine Cost Categories. These are:

- Services – The development and preparation of weather and climate forecast products and severe/hazardous weather products.
- Systems – Activities related to weather information technology systems, including data acquisition/observing systems; data integration, analysis and modeling systems; and, dissemination systems. Systems also include telecommunications systems and other information technology systems.
- Technology Infusion – Research and similar activities, such as IFPS development, data assimilation, model development, guidance/product development and quality assessment and forecaster applications.
- Outreach – Activities and products designed for external audiences, which convey an awareness of the value and usefulness of NOAA/NWS science, products, programs and services in promoting personal safety, an improved economy, and more effective environmental stewardship.
- Management/Administration – Activities related to the overall management and direction of NWS resources to achieve the NWS mission. Management and administrative activities related to NWS program-specific services and systems are not included in this cost category.

- Facilities – includes all activities related to NWS facilities.
- Earmarks – The Congressional Earmarks and Special Projects cost category includes all activities that are separately identified in the NWS appropriation.
- Reimbursable – Activities that the NWS performs for other agencies.
- Permanent Change of Station (PCS) -- Activities related to administering the PCS process.
- Miscellaneous – Includes only those costs that cannot otherwise be attributed to any other Cost Category.

For Cost Category and Cost Object definitions refer to the following appendices. To open an appendix, right click on the hyperlink below:

[Appendix 1 -- Cost Category Definitions.doc](#) -- *Cost Category Definitions* for the nine Cost Categories

[Appendix 2 -- Cost Object Definitions.xls](#) -- *Cost Object Definitions*, for all of the Cost Object Codes

Costs associated with labor and non-labor resources enter the Cost Management System through two separate streams. A designated manager reports labor resources quarterly via the Labor Survey, while non-labor resources are recorded throughout the year by use of Project Codes. For example, a Project Code would be used when coding procurement, obligating, or credit card transactions throughout the year.

3. DEFINITIONS

Base Funds – In Fiscal Year 2004, Base Funds are Salaries, Benefits, and Expenses (S&E).

Cost Category – (Detailed definitions can be found in Appendix 1 – Cost Category Definitions).

Cost Object – (Detailed definitions can be found in Appendix 2 – Cost Object Definitions).

Program Project or Activity (PPA) – Commonly referred to as Congressional earmarks or items specifically identified in the appropriation language.

Salaries, Benefits, and Expenses (S&E) – The Fiscal Year 2004 appropriation moved NWS' Base and Systems ORF accounts to Salaries, Benefits, and Expenses (S&E).

S&E funds are the NWS' budget excluding special projects, Congressional earmarks, reimbursable funding, and any one-time funding. S&E was formerly referred to as Base Funds or non-PPA funds.

4. NON-LABOR

Project Codes consist of seven digits. The first digit indicates the funding stream – no-year, one-year, two-year, etc. To avoid confusion with which letter or number to use for the various funding streams, the last six digits of the Project Codes are included in this guide. Users of this guide should contact the appropriate management or budget personnel in their FMC for specific guidance regarding whether to use (4, A, B, etc.) as the first digit of the Project Code. In FY 2004, the letter “B” proceeds all project codes, except reimbursables. Reimbursables have the number “4” as the first digit.

Salaries, Benefits, and Expenses (S&E) Funds are used for NWS' day-to-day operations, which excludes special projects, Congressional earmarks, reimbursable funding, and one-time funding. S&E Funds are also referred to as Non-PPA funds. PPA's are funds identified in the Congressional appropriation language for special projects and earmarks. PPA's are also referred to as Non-S&E funds. It is important to use the correct code, whether S&E (Non-PPA) or PPA (Non-S&E), as the coding is different for each. See Appendix 3 – Quick Reference Guide (Project Codes) -- for a detailed list of valid Project Codes. Note that Project Codes can only be used to the extent that funding is available within each program. If expenditures exceed program funding, use the S&E code labeled Cost Management as appropriate.

Project Codes are mapped to the Cost Object Codes. In some cases, there are multiple Project Codes for a particular Cost Object Code. This applies to S&E and PPA funding codes. While high level guidance is provided in this guide, detailed guidance on S&E versus Non-S&E Project Codes is not. For office and program specifics on S&E versus Non-S&E Project Codes please contact the appropriate management or budget personnel.

4.1 GUIDANCE FOR CODING NON-LABOR BASE FUNDED COSTS

All Project Codes and Cost Object Codes do not apply to every office. For example, most field offices within a region are not upper air sites. Therefore a non-upper air site would not use the upper air Cost Object Code 2.13 or the associated Project Code 8M4JUA. An electronic technician performing repairs at an upper air site would use this code to record any purchases made for the repair.

Offices may still use task codes (formerly known as phase codes under FIMA) with Cost Object Codes and Project Codes. Where deemed appropriate by the FMC, task codes may be used to track the cost of specific activities within Project Codes. Task codes are not directly mapped to Cost Objects in the Cost Management System. Task codes roll up to Project Codes and the Project Code is mapped to a Cost Object. Note that under

the current structure, task codes can only be used to track non-labor costs. In the current system labor costs are reported at the Cost Object level. Refer to Section 4 *Labor Survey* for guidance on reporting labor cost.

If a significant cost (greater than \$5,000) clearly supports two or three Cost Objects or Project Codes, then the costs should be split among the appropriate Cost Objects and Project Codes.

Costs should be reported under the program, project, or activity (PPA) where funds are appropriated. On occasion, the PPA does not have enough funding to cover the full cost and portions of the cost are funded out of an FMC's S&E budget using Local Warnings and Forecasts or Central Forecast Guidance. Coding for these instances must be approved by the FMC's budget officer.

This guidance does not affect the practice of splitting costs between object classes or between S&E and Non-S&E Project Codes. For example, some field offices split their monthly utility bill between the S&E, Local Warnings and Forecasts and S&E NEXRAD Systems Operations and Maintenance Project Codes. For offices co-located with the radar, there is one monthly bill. The costs are split to denote the Weather Forecast Office (WFO) portion versus the radar portion. This will not change.

4.2 GUIDANCE FOR CODING NON-LABOR MANAGEMENT/ADMINISTRATION (LINE /FMC OVERHEAD AND SUPPORT) COSTS (the former "Management Fund")

NWS has designated Project Codes to capture FMC operations in support of multiple programs, and management and administration costs. A typical example would be expenses of a regional HQ director and staff along with the administrative management division expenses. These codes allow for tracking of executive management and administration along with administrative support cost. NWS FMCs would capture this cost using 8M4JGE (or 8M4HGE for NCEP). The offices of Assistant Administrator then would select from the list of codes in Cost Object 5. If a WFO has an EEO program, those expenditures would correctly be charged to Cost Object 5.2 EEO and would not be counted as overhead in this instance.

The Management and Administration Fund is funded through the Salaries and Expenses appropriation and is used for expenses incurred by the Office of Assistant Administrator (AA) and the director's office and Administrative/Resource Management division of each FMC. It is a tool for tracking the executive management and administration cost along with administrative support cost recorded at NWS and by individual FMCs.

Summary of Management/Administration (Overhead) Codes by FMC

Codes to be used by director's offices, administration/resource management staff.

Organizational Title	Project Code
Office of the Assistant Administrator (AA)	8M4J__
Office of Climate Weather & Water Services (OCCWWS)	8M4JGE
Office of Hydrologic Development	8M4JGE
Office of Science & Technology (OS&T)	8M4JGE
Office of Operational Systems (OOS)	8M4JGE
Eastern Region (ER)	8M4JGE
Southern Region (SR)	8M4JGE
Central Region (CR)	8M4JGE
Western Region (WR)	8M4JGE
Alaska Region (AR)	8M4JGE
Pacific Region (PR)	8M4JGE
National Center for Environmental Prediction (NCEP)	8M4HGE

Office of the Assistant Administrator (AA) -- Use all of the S&E and non-S&E Project Codes, except 8M4JGE for cost funded through the Management and Administration Fund. AA is not to use 8M4JGE at all for non-labor, non-S&E funded costs. Select from the codes listed under Cost Object 5, Management and Administration or charge to PPAs as appropriate.

National Center for Environmental Prediction (NCEP) -- Use 8M4HGE for all costs representing management and administration/overhead.

OCCWWS, OHD, OS&T, OOS, ER, SR, CR, WR, AR, and PR – Use 8M4JGE for all costs representing management and administration/overhead.

If uncertain, please confirm Project Code usage with the appropriate management or budget personnel.

5. LABOR SURVEY

Data on the distribution of employee time among Cost Objects is entered into the Cost Management System through the Labor Survey, which is completed quarterly. Each organization or office that has its own financial organization code and labor costs submits a Labor Survey each quarter. Submitting organizations or offices include:

- Regional Headquarters Division Chiefs
- Regional Director's Office
- Weather Forecast Offices (WFO) and River Forecast Centers (RFC)
- Center Weather Services Units (CWSU)
- Other regional field offices as determined

For NWS Headquarters and National Centers for Environmental Prediction (NCEP) FMCs, a Labor Survey will be completed by the office organization code determined by FMC and CFO Office staff. Typically, this would be done at the organizational branch level.

The manager for the organization/office will complete the survey quarterly as follows:

- 1st Quarter (October - December) - complete survey in January
- 2nd Quarter (January - March) - complete survey in April
- 3rd Quarter (April - June) - complete survey in July
- 4th Quarter (July - September) - complete survey in October.

The survey is web-based and is accessible via: <http://rims.nws.noaa.gov/>. Access the applicable organization's Labor Survey by:

- Selecting "Cost Management Labor Survey,"
- Enter the organization through the drop down menu,
- Enter the user ID and password (provided by the CFO financial systems staff).

Each quarter, CFO Office staff will alert the FMC budget officers and Administrative Management Division Chiefs when the Labor Survey is available on the web. The FMC budget officers will then coordinate and provide the necessary information to their managers for Labor Survey completion. For difficulties with access, user ID, or password, contact the cost management staff listed in Section 10, *CFO Office Cost Management Program Contacts*.

Only one Labor Survey is required for each organization. The organization's manager or designated personnel needs to assign the total productive work time of NWS staff on a percentage basis to the relevant Cost Object Code. If the organization's manager or designated personnel is not available during the reporting period, a back-up

arrangement must be made or the data must be entered remotely (access is web based). All NWS staff paid through the office/organization code including any sector facility technicians (SFTs) and regional maintenance specialists (RMSs) will be included in the survey. The percentage of time devoted toward each cost object is based on the whole staff, and the total percentage assigned must equal 100% (the web-based Labor Survey has a built-in check for this). Further instructions, navigational tips, and clarifications are found on the Labor Survey web site on the data entry form page. There is also a web link called "instructions.htm" that provides further information.

6. WHAT'S NEW THIS YEAR

NEW COST OBJECT CODE:

- 6.7 Facilities Physical Security – All activities necessary to secure NWS physical assets including the acquisition, operation and replacement of security equipment and systems. This also includes developing/monitoring services contracts, conducting periodic facility vulnerability assessments, and developing/updating of physical security policies and instructions. Examples of security equipment include: cameras, card entry devices, cipher locks, lighting, monitors, and other related items.

UPDATED COST OBJECT CODE DESCRIPTIONS:

The definition of the Cost Object "Maintain Facilities" will be revised as indicated below. No Physical Security costs should be reported against this Cost Object.

- 6.1 Maintain Facilities – All activities related to the maintenance of any NWS facility, including the buildings and grounds that house NWS equipment, such as NEXRAD towers. Examples include repairing facilities and arranging for facility repairs, coordinating SFT on-site oversight and managing facilities maintenance. Note: All activities associated with providing Physical Security to NWS facilities should be charged to the new Physical Security cost object.

7. COST MANAGEMENT DATA REPORTING

In determining labor costs by organization all labor cost data from the CAMS accounting system is first segregated from non-labor charges by major object classes (11 and 12 series codes). After the appropriate labor cost by organization is determined this dollar value is then multiplied by the assigned labor percentage by cost object from the Labor Survey. The Cost Management System does not dictate or change the normal usage of Project Codes when entering time in the T&A system. The calculation of labor dollars is predicated on summarizing the charges to the object classes 11 and 12 regardless of the project associated with that particular time entry transaction. All non-labor costs in the Project Codes for each cost object are added together to determine the non-labor costs for a particular cost object.

The resulting labor and non-labor amounts will be combined by the CFO's Office in various quarterly cost management reports and posted to a website. For each organization code that submits a Labor Survey there will be cost management report showing costs (labor and non-labor) by cost categories and by cost object. For each FMC, there will be FMC-wide and summary reports as well. The CFO Office will communicate regularly to the FMC budget officers when the quarterly reports are available and provide other information (website, passwords, etc.).

8. FREQUENTLY ASKED QUESTIONS (FAQ)

1. Under what cost object do meetings with media contacts fall?

Meetings with media contacts fall under cost object 4.2 - Service and Education Outreach Programs. The applicable project codes for this cost object would be 8M4JPM or 8M4HRH (NCEP).

2. Under what cost object should staff meetings, management program reviews, etc. be classified?

Meeting time should be classified under the cost object on which the meeting is primarily focused. General staff meetings that cover many areas would be reported under 5.7 - General and Administrative Functions, while management program reviews would be charged to 5.6 - Other Management Activities.

3. Where would I charge compilation of reports?

If the reports are standard monthly reports, report the time under 5.6 - Other Management Activities. If the report relates to a specific severe weather event (such as a verification report), report the time under 1.21 - Severe/ Hazardous Weather Products.

4. Under what cost object should I classify time spent developing internet products?

It depends what the Internet products are for. If they are for disseminating information to the public, report the time as 2.33 - Other Dissemination Systems. If the products are for general office use, report the time as 2.5 - Other IT Systems.

5. How do I report time spent on IT systems supporting management and administrative functions?

Only time spent on a specific management/administrative IT system would be reported under one of the Management and Administration cost objects. For

example, if staff supported the deployment of CAMS (the new finance system) then report the time under 5.3 - Manage Fiscal Resources (8M4JFR/8M4HFR (NCEP)).

However, if your staff supports many different systems, such as a help-desk operation, then report the time under 2.5 - Other IT Systems. The general rule is if you can not easily trace time to one of the listed systems, telecommunications, or IT security then report the time under 2.5.

6. *What process should I use to estimate the overall distribution of staff time for my department?*

There are a couple of ways to go about estimating staff time distribution.

- Manager estimates percentages for division as a whole.
- Each employee reports his/her own estimate; average of all employees reported for division.

7. *Should employee salary be used as a weight when determining the overall estimation for my WFO/Office?*

At this point, no.

8. *How often will I need to fill out a labor survey? How is the survey expected to be administered in its maturity?*

Currently, labor surveys are prepared quarterly. We are exploring other data collection options but we have no immediate plans to change it at this time.

9. *How will the data produced by the Cost Management Program help us achieve the NWS mission?*

The data will give us more insight into where NWS funds are being spent. This will allow us to manage costs more efficiently.

10. *Should contractors be included in the labor survey? Time spent working on contracts?*

No, contractors are not included in the labor survey. The project code determines to which cost object contractor costs are charged.

11. *Does the current T&A reporting change?*

No, the Cost Management System has no impact on T&A reporting at this time. A few offices participating in a new Web TA pilot will report labor in that system. However, we will continue the labor survey for Fiscal Year 2004.

12. Should I include employee overtime, compensatory time, credit hours, leave, and benefits in my staff time estimates?

All productive hours, including overtime, comp time, and credit hours should be included as part of the 100% of staff time for purposes of the labor survey. Do not include leave and benefits.

13. Under which cost object do I place training for systems (i.e. AWIPS or NEXRAD)?

Training for systems is charged directly to the specific system. For systems with multiple Cost Objects (e.g., AWIPS Development or AWIPS Deployment) charge training to the most closely related cost object. For example, if the training is related to the deployment of a new system then record the time to System Deployment. If your office does not have PPA funds for the specific system (AWIPS or NEXRAD) use the S&E Project Codes and applicable Cost Object.

14. Do I submit one survey for each section in my branch, or a survey for the branch as a whole?

If the sections have a separate organization code in the financial system then you would report for each section, but generally you would submit one survey for the branch as a whole.

15. What should I do if a large amount of employee time is spent on a cost object that does not appear in the survey?

Contact the Cost Management staff to discuss the situation. The contact people are listed below.

16. Where do I report science and technology infusion planning.

Report under the most closely related Technology Infusion cost object, 3.1 through 3.4, or under if 3.5 - Other Technology Infusion.

17. How will I be able to access the results of the survey?

Results can be found at:

URL: <http://rims.nws.noaa.gov>
Link: NWS Data Warehouse
Report Category: Cost Mgmt Labor Survey
Report: Previous Labor Survey Percentages

9. COST MANAGEMENT SYSTEM OUTPUTS

The Cost Management System provides standard reports by three levels: NWS, FMC, and Organization. Standard reports are contained in the NWS Data Warehouse at URL: <http://rims.nws.noaa.gov>. Three popular reports are:

- Cost Objects CAMS (NWS) – provides weather service wide cost data, shows costs by FMC.
- Cost Objects CAMS (FMC) – provides cost data for each FMC.
- Cost Objects CAMS (FMC by org.) – provides cost data by organization within the FMC.

Additional reports are available in the NWS Data Warehouse and reports may be customized to meet a variety of needs through Business Objects. Guidelines for using Business Objects to access reports and specific information on cost management can be found under the Cost Management link on the CFO web page at:

http://www.weather.gov/cfo/comptroller/cost_management.htm

10. CFO OFFICE COST MANAGEMENT PROGRAM CONTACTS

Please contact one of the following NWS Headquarters CFO Office staff if you have any comments or questions regarding the cost management system.

- Lynne Baronoff, Lynne.Baronoff@noaa.gov, (301) 713-9050, ext. 153.
- Violet Foster, Violet.Foster@noaa.gov, (301) 713-1015, ext. 124.

APPENDIX 1 -- Cost Category Definitions

1.0 Services

Includes the development and preparation of Weather and climate forecast products and severe/hazardous weather products.

Services also include all forecast and warnings-related work, such as monitoring weather conditions, manipulating and maintaining data and databases, verification, reporting, internal/external coordination, dissemination, training, policy development, planning, managing and similar service-related activities.

Work related to data acquisition or observing is not considered a component of the Services Cost Category and should be reported under the Systems Cost Category.

2.0 Systems

All activities related to weather information technology systems, including data acquisition/observing systems; data integration, analysis and modeling systems; and, dissemination systems. This category also includes telecommunications systems and other information technology systems, except those associated with support functions, such as Finance and Personnel. Systems-related activities include:

- Program management (e.g., planning; policy, procedure and budget development; and, quality assurance)
- Administration (e.g., configuration management)
- Developing, purchasing, shipping, installing, testing and certifying new hardware and/or software
- Technical support (e.g., support to the field)
- Developing, conducting, attending, administering and coordinating systems-related training
- Data acquisition/observing
- Special projects
- Similar systems-related activities.

Also included in this cost category are IT security technical controls (i.e. development, implementation, operation, monitoring and maintenance of firewalls, intrusion detection systems, security-related hardware and software, virus detection software, back-up, alternate and hot sites and off-site storage). All IT security technical controls activities related to most NWS systems are reported under a single, combined system security technical controls cost object (2.6). However, IT security technical controls activities are reported separately for each of the major NWS systems (i.e. NEXRAD, ASOS and AWIPS) (2.114, 2.124 and 2.214). Work related to Information Technology (IT) security, other than technical controls, should not be reported within the Systems cost category. Instead it should be reported under IT Security Program Management (5.8).

Information technology systems that support management and administrative functions (e.g., the Commerce Administrative Management System and the Consolidated Logistics System) should not be reported under this cost category; but, instead, should be reported under the cost object related to that system's function (e.g., Manage Fiscal Resources (5.3)).

3.0 Technology Infusion

The Technology Infusion cost category includes all research and similar activities, such as *IFPS development, data assimilation, model development, guidance/product development and quality assessment and forecaster applications* (e.g., SOOs, TDGs), intended to support forecasting improvements.

4.0 Outreach

The Outreach cost category includes all activities and products designed for external audiences, which convey an awareness of the value and usefulness of NOAA/NWS science, products, programs and services in promoting personal safety, an improved economy and more effective environmental stewardship.

5.0 Management and Administration

The Management and Administration cost category includes all activities related to the overall management and direction of the NWS' resources to achieve the NWS mission. Management and administrative activities related to NWS program-specific services and systems are not included in this cost category. Costs that are FMC overhead (8M4JGE or 8M4HGE) are coded according to the information in Section 4.2 – Guidance for Coding Non-Labor Management/Administration Costs – of The Guide.

6.0 Facilities

The Facilities cost category includes all activities related to NWS facilities.

7.0 Congressional Earmarks and Special Projects

The Congressional Earmarks and Special Projects cost category includes all activities that are separately identified in the NWS' appropriation. Such activities typically do not span across Financial Management Centers (FMCs). Therefore, the specific cost objects within this cost category for each FMC are listed separately. Moreover, the Congressional Earmarks and Special Projects cost object numbers (e.g., 7.1, 7.5) on each FMC's labor survey may not include all numbers in sequence.

8.0 Reimbursables/Line Office Transfers

The Reimbursables/Line Office Transfer cost category includes all activities that the NWS performs for other agencies (e.g., the Federal Aviation Administration, Bureau of

Land Management/US Forest Service, Office of Oceanic and Atmospheric Research). Such activities typically do not span across FMCs. Therefore, the specific cost objects within this cost category for each FMC are listed separately.

9.0 Permanent Change of Station (PCS)

Includes activities related to administering the PCS process.

9.9 Miscellaneous

Includes only those costs that cannot otherwise be attributed to any other cost category/cost object, or costs attributable to multiple cost objects that can not easily be assigned to those cost objects. *Examples include: general office supplies.*

APPENDIX 2 -- Cost Object Definitions

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
1.0 SERVICES		
1.1 Weather and Climate Forecast Products		
1.11	IFPS Forecast Product Generation	The simultaneous development and preparation of multiple types of forecasts and meteorological data products using the Interactive Forecast Preparation System (IFPS) from a common digital database (e.g., ZFP, RDF, CCF). This includes scheduled and event-driven forecast products, program-wide products and weather data service products (e.g., <i>state weather summaries</i>).
1.12	Non--IFPS Forecast Product Generation	The development and preparation of various types of forecasts and meteorological data using methods other than IFPS.
1.121	Public Forecast Products	The development and preparation of public forecast and meteorological data products and services. This includes scheduled and event-driven public forecast products, weather data service products and area forecast discussions (AFD), as well as the general provision of weather data to the public.
1.122	Aviation Forecast Products	The development and preparation of aviation forecasts, such as TAF, TWEB, METARS, Area Forecasts (AF) and Winds Aloft Forecasts.
1.123	Fire Weather Products	The development and preparation of fire weather products, such as Fire Weather (Zone) Forecasts, Fire Danger Statements, Smoke Management Forecasts, Spot Forecasts and Fire Weather Trend Forecasts.
1.124	Hydrologic Forecast Products	The development and preparation of hydrologic forecast products, such as River Stage Information/Statement, Hydrologic Summaries, Daily River and Lake Summaries, Precipitation and Temperature and Hydrologic Outlooks, and including Advanced Hydrologic Prediction Services.
1.125	Marine Weather Products	The development and preparation of marine weather products, such as Bay and Coastal, Offshore, High Seas, Recreational, Great Lakes Open Lake and Near Shore and Surf Forecasts and Area Discussions.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
1.126	Climate Products	The development and preparation of climate products, such as 6-10 Day, Week 2, 30-Day, 90-Day Outlooks, Hazards Assessment and ENSO Discussion, as well as the preparation of Daily and Monthly Climate Summaries.
1.2 Severe/Hazardous Weather Products		
1.21	Severe/Hazardous Weather Products	The development and preparation of severe/hazardous weather products, other than hurricane/tropical weather, tsunami and volcanic ash. This includes discussions, advisories, statements, watches and warnings related to public, aviation, marine or fire weather and hydrologic operations, as well as HAZMAT weather support.
1.22	Hurricane/Tropical Weather Products	The development and preparation of all hurricane and tropical weather products, such as: <i>Tropical Weather Outlook, Hurricane/Tropical Cyclone/Storm warnings, watches, advisories, discussions and strike possibilities; Cyclone Updates; and, Disturbance Statements.</i>
1.23	Tsunami Warnings	The development and preparation of all <i>Tsunami Warning Products.</i>
1.24	Volcanic Ash Forecast Products	The development and preparation of Volcanic Ash Forecast Products.
1.25	Susquehanna River Basin Flood Systems	The development and preparation of Susquehanna River Basin Flood Systems.
2.0 SYSTEMS		
2.1 Data Acquisition/Observing Systems		
These definitions apply to programs funded by one of the systems listed. If your office receives no funding for systems <u>or</u> exceeds available funding under systems use the comparable S&E Cost Management Code under Local Warnings and Forecasts.		
2.11	NEXRAD	All activities (excluding IT security program management - covered in 5.8) related to the NEXRAD system.
2.111	NEXRAD Development	All activities related to the development of the NEXRAD system, when the functionality being developed represents a significant improvement to existing capabilities. Examples include: <i>system architecture design; prototyping hardware or software; and, developing, testing and debugging software modules or builds.</i>

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
2.112	NEXRAD Deployment	All activities related to the incorporation (i.e. deployment; implementation) of new hardware or software into the existing, operational NEXRAD system, when the functionality being incorporated represents a significant improvement to existing capabilities. Examples include: <i>purchasing, shipping, installing, testing and certifying new hardware or software; ORPG; and, training on the new hardware or software.</i>
2.113	NEXRAD Operations and Maintenance	All activities related to the normal, continuing operations and maintenance of the NEXRAD system, such as replacing or maintaining hardware or software, when such hardware or software does not represent a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying replacement hardware or software; modifying existing software to correct technical problems (including marginal improvements in functionality); monitoring system performance; hardware and software preventive and corrective maintenance, operational system communication services; and, technical support.
2.114	NEXRAD IT Security Technical Controls	All activities related to the development, implementation, operation, monitoring and maintenance of system security technical controls (e.g., firewalls, intrusion detection systems). Examples include: security training; purchasing, shipping, installing, testing and certifying hardware and software intended primarily to effect or improve system security technical controls; and, providing off-site storage.
2.12	ASOS	All activities (excluding IT security program management) related to the ASOS system.
2.121	ASOS Development	All activities related to the development of the ASOS system, when the functionality being developed represents a significant improvement to existing capabilities. Examples include: system architecture design; prototyping hardware or software; and, developing, testing and debugging software modules or builds.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
2.122	ASOS Deployment	All activities related to the incorporation (i.e. deployment; implementation) of new hardware or software into the existing, operational ASOS system, when the functionality being incorporated represents a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying new hardware or software; and, training on the new hardware or software.
2.123	ASOS Operations and Maintenance	All activities related to the normal, continuing operations and maintenance of the ASOS system, such as replacing or maintaining hardware or software, when such hardware or software does not represent a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying replacement hardware or software; modifying existing software to correct technical problems (including marginal improvements in functionality); monitoring system performance; hardware and software preventive and corrective maintenance, operational system communication services; and, technical support.
2.124	ASOS IT Security Technical Controls	All activities related to the development, implementation, operation, monitoring and maintenance of system security technical controls (e.g., firewalls, intrusion detection systems). Examples include: security training; purchasing, shipping, installing, testing and certifying hardware and software intended primarily to effect or improve system security technical controls; and, providing off-site storage.
2.13	Upper Air/Radiosonde	All activities (excluding IT security) related to the development, deployment, operations and maintenance of the upper air/radiosonde programs. Examples include: taking upper air observations; purchasing equipment; and, related training.
2.14	Satellite Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of satellite systems. Examples include: interagency coordination; system monitoring; and, quality assurance.
2.15	Cooperative Observer System	All activities (excluding IT security) related to the development, deployment, operations and maintenance of the Cooperative Observer System. Examples include: purchasing and shipping equipment; taking local NWS Coop Station observations; and, collecting and processing Coop Observer real-time reports.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
2.16	Hydrologic Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of hydrologic systems, such as IFLOWS and HADS. Examples include: collecting and processing remote hydro data-DCP, LARC Alerts and precipitation observations; developing, testing and debugging software modules or builds; and, purchasing, shipping, installing, testing and certifying hardware (e.g., river gauges) and software.
2.17	Marine Weather Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of marine weather systems, such as CMAN and Dial-a-buoy. Examples include: operations and maintenance of F420 marine wind systems; and, purchasing, shipping, installing and testing marine system-related equipment.
2.18	Other Data Acquisition and Observing Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of data acquisition and observing systems that are not separately identified. Examples include: taking local SFC Obs-SCD, SDO and climate observations; conducting/managing UCP tasks; Aviation Observing Program Management, including SAWRS; and, observational quality assurance.
2.2 Data Integration, Analysis, and Modeling Systems		
2.21	AWIPS	All activities (excluding IT security program management) related to the AWIPS system.
2.211	AWIPS Development	All activities related to the development of the AWIPS system, when the functionality being developed represents a significant improvement to existing capabilities. Examples include: system architecture design; prototyping hardware or software; and, developing, testing and debugging software modules or builds.
2.212	AWIPS Deployment	All activities related to the incorporation (i.e. deployment; implementation) of new hardware or software into the existing, operational AWIPS system, when the functionality being incorporated represents a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying new hardware or software; and, training on the new hardware or software.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
2.213	AWIPS Operations and Maintenance	All activities related to the normal, continuing operations and maintenance of the AWIPS system, such as replacing or maintaining hardware or software, when such hardware or software does not represent a significant improvement to existing capabilities. Examples include: purchasing, shipping, installing, testing and certifying replacement hardware or software; modifying existing software to correct technical problems (including marginal improvements in functionality); monitoring system performance; hardware and software preventive and corrective maintenance, operational system communication services; and, technical support.
2.214	AWIPS IT Security Technical Controls	All activities related to the development, implementation, operation, monitoring and maintenance of system security technical controls (e.g., firewalls, intrusion detection systems). Examples include: security training; purchasing, shipping, installing, testing and certifying hardware and software intended primarily to effect or improve system security technical controls; and, providing off-site storage.
2.22	Weather and Climate Primary Supercomputer Operations and Maintenance	All activities (excluding IT security) related to the operation and maintenance of the weather and climate primary supercomputer. Examples include: preventive and corrective maintenance; system monitoring; and, system training.
2.23	Weather and Climate Back-up Supercomputer Operations and Maintenance	All activities (excluding IT security) related to the operation and maintenance of the weather and climate back-up supercomputer. Examples include: preventive and corrective maintenance; system monitoring; and, system training.
2.3 Dissemination Systems		
2.31	NOAA Weather Radio/Console Replacement System (NWR/CRS)	All activities (excluding outreach and IT security) related to the development, deployment, operations and maintenance of NWR/CRS. Examples include: purchasing, shipping, installing and testing equipment; system monitoring; and system training.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
2.32	NOAA Weather Wire System/Emergency Managers Weather Information (NWWWS/EMWIN)	All activities (excluding outreach and IT security) related to the development, deployment, operations and maintenance of NWWWS/EMWIN. Examples include: <i>operations; preventive and corrective maintenance; and, system training.</i>
2.33	Other Dissemination Systems	All activities (excluding outreach and IT security) related to the development, deployment, operations and maintenance of other dissemination systems, such as the Family of Services (FOS) and the Interactive Weather Information Network (IWIN). Examples include: purchasing, shipping, installing and testing equipment; system monitoring; and system management and administration.
2.4	Telecommunications Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of telecommunications systems, such as phone lines and other telecommunication services that are not for the exclusive use by one particular system. Examples include: local and long distance telephone service; the telecommunications gateway; and, commercial internet services.
2.5	Other Information Technology (IT) Systems	All activities (excluding IT security) related to the development, deployment, operations and maintenance of IT systems (hardware and software) that are not otherwise separately identified, such as office PC systems; office Local Area Networks (LANs); EMRS; and, global positioning systems. Examples of Other IT Systems activities include: purchasing and installing hardware and software; preventive and corrective maintenance; and system-related training. Note: IT systems solely supporting management and administrative functions, such as Finance and Personnel, should not be reported under this cost object; these systems should be reported under the related cost object within the Management and Administration cost category (5.0).
2.6	IT Security Technical Controls (other than for NEXRAD, ASOS and AWIPS)	All activities related to IT security (excluding IT security program management) for all NWS systems, except NEXRAD, ASOS and AWIPS. Examples include: installing, testing and monitoring firewalls; operating and maintaining virus detection software; and, security technical controls-related training.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
3.0 TECHNOLOGY INFUSION		
3.1	Meteorological Technology Infusion	Research and similar activities related to improving short-term (i.e. up to two weeks) weather forecasting.
3.2	Climate Technology Infusion	Research and similar activities related to improving long-term (i.e. beyond two weeks) weather forecasting.
3.3	Ocean Technology Infusion	Research and similar activities related to improving oceanographic forecasting.
3.4	Hydrological Technology Infusion	Research and similar activities related to improving forecasting of river and lake conditions, including the development of Advanced Hydrologic Prediction Services (AHPS).
3.5	Other Technology Infusion	Research and similar activities related to improving aspects of weather forecasting not otherwise separately identified.
4.0 OUTREACH		
4.1	Cooperative Observer Program Outreach	All outreach activities related to the Cooperative Observer Program. Such activities include: recruitment; site visits to present awards and recognition to cooperative observers; completing outreach related paperwork; monitoring program quality; planing, implementing and monitoring program outreach initiatives; preparing and coordinating Cooperative Observer network newsletters; and program-related travel, training, policies and directives.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
4.2	Service and Education Outreach Programs	All outreach activities related to services and systems other than the Cooperative Observer Program. Examples include: outreach activities in support of Severe/Hazardous Weather, Marine Weather, Hurricanes, Climate Services, Tsunami and Volcanic Ash Services, NWR expansion and Storm Ready; PMO activities; Alaska Weather TV; visits with the media, emergency managers, transportation officials and schools; open houses; public/community education meetings and partner workshops; preparing and coordinating pamphlets, newsletters, brochures, videos, posters, CD-ROMS, and other materials; and, outreach-related travel and training.
5.0 MANAGEMENT AND ADMINISTRATION		
5.1	Manage Human Resources	All activities related to the effective, efficient and legal management of the NWS' human resources. Examples include: supervision; recruitment; resolving employee disputes; coordinating labor-management relations; scheduling shift work; developing staffing plans; and related training (e.g., team training).
5.2	Diversity/EEO	All activities related to the NWS' responsibilities to support equal employment opportunity and diversity. Examples include: recruitment and retention activities focused on women, minorities and people with disabilities; providing guidance, advice and policy statements on equal opportunity and diversity; diversity/EEO training; and, conducting and coordinating equal opportunity investigations.
5.3	Manage Fiscal Resources	All activities related to the general or overall management of the NWS's financial resources. Examples include: budget formulation and execution; financial systems (e.g., the Commerce Administrative Management System and the Consolidated Logistics System) development and operations; financial reporting; financial management training; and, resolving audit issues.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
5.4	International Activities	All activities related to the international interests of the U.S. meteorologic and hydrologic communities, except where such activities are related specifically to other cost objects. Examples include: coordinating and attending international meetings and conferences regarding meteorology (e.g., World Meteorological Organization conferences); assisting other countries in crisis with meteorological and hydrologic support; and, managing bilateral technology transfer and data exchange.
5.5	General Professional Development	All activities related to staff development, except when such activities are related specifically to other cost objects. This also includes preparing, planning and conducting such classes. Examples include: taking leadership and management training; reading professional journals; and, attending regional workshops/conferences (e.g., MIC/HIC) that are general in nature and cover material on many different NWS services, systems or other functions.
5.6	Other Management Activities	All activities related to the management of the NWS, except when such activities are related specifically to other cost objects. Examples include: overall strategic planning; preparing and monitoring operating plans; participating in other NWS initiatives/special projects; reporting performance measures; conducting organizational studies; internal/employee communications, ensuring Homeland Security (except as included in other cost objects); and, responding to Congressional inquiries.
5.7	General and Administrative Functions	All administrative activities that are not specifically related to other cost objects. Examples include: procuring and managing supplies; performing general office support; managing mail and shipping activities; arranging travel; and handling administrative e-mail.
5.8	IT Security-- Program Management	All activities related to IT security, other than technical controls. Examples include: developing IT security plans, reviewing security program compliance; conducting IT risk assessments; responding to IT security incidents; and, participating in security awareness training.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
5.9	A-76 Studies	All activities related to planning, conducting, and analyzing A-76 studies, including contracted services acquired to support and conduct an A-76 studies. Also includes work related to acquiring contract services to support and conduct an A-76 study.
6.0 FACILITIES		
6.1	Maintain Facilities	All activities related to the maintenance of any NWS facility, including the buildings and grounds that house NWS equipment, such as NEXRAD towers. Examples include repairing facilities and arranging for facility repairs, coordinating SFT on-site oversight and managing facilities maintenance. Note: All activities associated with providing Physical Security to NWS facilities should be charged to the new Physical Security cost object.
6.2	Environmental Compliance	All activities necessary to comply with internal, local, state and federal environmental laws, rules and regulations. For additional information on compliance reference the NWS Environmental Management Manual (NWSM-50-1116) Examples include: responding to environmental incidents; restoring and decontaminating sites; conducting environmental assessments; environmental compliance training; and, participating in waste and pollution prevention and recycling.
6.3	Safety and Health Compliance	All activities necessary to comply with NWS Occupational Safety and Health Manual (NWSM-50-1115). Examples include: analyzing site operations versus requirements; participating in training and testing related to safety and health (e.g., fire drills); and, maintaining safety and health equipment.
6.4	Facility Construction	All activities related to the construction of NWS facilities. Examples include: procuring and managing facilities design and build support; PDAM-related activities (FOC meeting preparation and coordination); and maintaining documentation.
6.5	Rent/Leases	All activities related to administering rent/leases.
6.6	Utilities	All activities related to administering office utilities.

COST OBJECT CODE	COST OBJECT TITLE	COST OBJECT DEFINITION
6.7	Physical Security	All activities necessary to secure NWS physical assets including the acquisition, operation and replacement of security equipment and systems. This also includes developing/monitoring services contracts, conducting periodic facility vulnerability assessments, and developing/updating of physical security policies and instructions. Examples of security equipment include: cameras, card entry devices, cipher locks, lighting, monitors, and other related items.
7.0 CONGRESSIONAL EARMARKS AND SPECIAL PROJECTS		
The Congressional Earmarks and Special Projects cost category includes all activities that are separately identified in the NWS appropriation. Such activities typically do not span across Financial Management Centers (FMCs). Therefore, the specific cost objects within this cost category for each FMC are listed separately. Moreover, the Congressional Earmarks and Special Project's cost object numbers (e.g., 7.1, 7.5) on each FMC's labor survey may not include all numbers in sequence.		
8.0 REIMBURSABLES/LINE OFFICE TRANSFERS		
The Reimbursables/Line Office Transfer cost category includes all activities that the NWS performs for other agencies (e.g., the Federal Aviation Administration, Bureau of Land Management/US Forest Service, Office of Oceanic and Atmospheric Research). Such activities typically do not span across FMCs. Therefore, the specific cost objects within this cost category for each FMC are listed separately.		
9.0 PERMANENT CHANGE OF STATION		
9.1	Permanent Change of Station (PCS)	The Permanent Change of Station (PCS) cost category includes activities related to administering the PCS process.
9.9	Miscellaneous Costs	The "Miscellaneous" cost category includes only those costs that cannot otherwise be attributed to any other cost category/cost object, or costs attributable to multiple cost objects that can not easily be assigned to those cost objects. Examples include: general office supplies.

APPENDIX 3 -- Quick Reference Guide -- Project Codes

Project Code	Project Code Description	Cost Object	Cost Object Description
2MF1NF	PPA - NEXRAD PI - PAC (CWIP)	7.41	NEXRAD Development (Earmark)
2MF1RF	PPA - RADIOSONDE REPLACEMENT SYS PAC (CWIP)	7.51	Radiosonde Replacement (Earmark)
2MF1WF	PPA - AWIPS/NOAA PORT- PAC (CWIP)	7.31	AWIPS Development (Earmark)
2MF4A4	PPA - WFO CONST.- PAC (ST PAUL WSO) (CWIP)	7.11	NWS Construction (Earmark) St. Paul
2MF4A5	PPA - WFO CONST.- PAC (ATWC) (CWIP)	7.11	NWS Construction (Earmark) ATWC
2MF4BC	PPA - WFO CONST.- PAC (STERLING EXPAN) (CWIP)	7.11	NWS Construction (Earmark) Sterling
2MF4CM	PPA - WFO CONST.- PAC (CARIBOU WFO) (CWIP)	7.11	NWS Construction (Earmark) Caribou
2MF4KW	PPA - WFO CONST.- PAC (KEY WEST WFO) (CWIP)	7.11	NWS Construction (Earmark) Key West
2MF4P1	PPA - WFO CONST.- PAC (AMERICAN SAMOA WSO) (CWIP)	7.11	NWS Construction (Earmark) American Samoa
2MF4P2	PPA - WFO CONST.- PAC (HILO DCO) (CWIP)	7.11	NWS Construction (Earmark) Hilo DCO
2MS140	PPA - WEATHER & CLIM SUPERCOMP - PAC	7.71	Central Computer Upgrade (Earmark)
2MS1A6	PPA - ASOS - PAC (NON-CWIP)	7.21	ASOS Development (Earmark)
2MS1N6	PPA - NEXRAD - PAC (NON-CWIP)	7.41	NEXRAD Development (Earmark)
2MS1R6	PPA - RADIOSONDE NETWRK REPL - PAC (NON-CWIP)	7.51	Radiosonde Replacement (Earmark)
2MS1TG	PPA - NWSTG BACK-UP - PAC	7.73	NWSTG Backup (Earmark)
2MS1W6	PPA - AWIPS - PAC (NON-CWIP)	7.31	AWIPS Development (Earmark)
2MS400	PPA - WFO CONSTRUCTION (NON-CWIP)	9.9	NWS Construction (Earmark)
2MS401	PPA - WFO MAINTENANCE (NON-CWIP)	7.14	WFO Maintenance (Earmark)
2MS4P1	NON-CWIP WSO PAGO PAGO AMERICAN SAMOA	9.9	Miscellaneous
2MS4P2	NON-CWIP DCO HILO	9.9	Miscellaneous
4M4JHP	PPA - AHPS DEVELOPMENT (CWIP)	9.9	Miscellaneous
4M4L88	S&E SYS PPA - WSR88D (CWIP)	7.46	WSR-88D (Earmark)
4M4LAS	S&E SYS PPA - ASOS PI (CWIP)(NEED AUTHORIZATION)	9.9	Miscellaneous
4M4LAW	S&E SYS PPA - AWIPS (CWIP)(NEED AUTHORIZATION)	2.213	AWIPS Operations and Maintenance
8M4H10	S&E COST MGT - GEN WEATHER	9.9	Miscellaneous

Project Code	Project Code Description	Cost Object	Cost Object Description
	GUIDANCE/CFG		
8M4H11	S&E COST MGT - AWIPS DEVELOPMENT/CFG	2.211	AWIPS Development
8M4H12	S&E COST MGT - FACSIMILE COMM/CFG	2.4	Telecommunications Systems
8M4H13	S&E COST MGT - IT SECURITY TECH CONTRL/CFG	2.6	IT Security Technical Controls (All Other Systems)
8M4H14	S&E COST MGT - OTHER INFORMATION TECH/CFG	2.5	Other IT Systems
8M4H15	S&E COST MGT - SUPERCOMPUTER FROM BASE/CFG	2.22	Weather and Climate Primary Supercomputer O&M
8M4H16	S&E COST MGT - BACKUP SUPERCOMP BASE/CFG	2.23	Weather and Climate Back Up Supercomputer O&M
8M4H22	S&E COST MGT - OCEAN TECH INFUSION/CFG	3.3	Ocean Tech Infusion
8M4H23	S&E COST MGT - HYDROLOGIC TECH INFUSN/CFG	3.4	Hydrological Tech Infusion
8M4H24	S&E COST MGT - OTHER TECH INFUSION/CFG	3.5	Other Tech Infusion
8M4HEE	S&E COST MGT - DIVERSITY & EEO/CFG	5.2	Diversity/EEO
8M4HFR	S&E COST MGT - MANAGE FISCAL RESOURCES/CFG	5.3	Manage Fiscal Resources
8M4HGA	S&E COST MGT - PERFORM GEN/ADMIN WORK/CFG	5.7	Perform General/Admin. Work
8M4HGE	S&E COST MGT - GEN OFFICE ADMIN EXP/CFG	5.7	Management/Adm
8M4HGS	S&E COST MGT - NCEP GAINSHARING/CFG	5.7	Management/Adm
8M4HHR	S&E COST MGT - MANAGE HUMAN RESOURCES/CFG	5.1	Manage Human Resources
8M4HL1	S&E COST MGT - METEORLOGIC TECH INFUSN/CFG	3.1	Meteorological Tech Infusion
8M4HL2	S&E COST MGT - CLIMATE TECH INFUSION/CFG	3.2	Climate Tech Infusion
8M4HL3	S&E COST MGT - PUBLIC FORECAST PRODS/CFG	1.121	Non-IFPS Public Forecast Products
8M4HL4	S&E COST MGT - HYDRO FORECAST PRODS/CFG	1.124	Non-IFPS Hydrologic Forecast Products
8M4HL5	S&E COST MGT - MARINE WEATHER PRODS/CFG	1.125	Non-IFPS Marine Weather Products
8M4HL6	S&E COST MGT - CLIMATE PRODUCTS/CFG	1.126	Non-IFPS Climate Products
8M4HL7	S&E COST MGT - AVIATION FORECAST PROD/CFG	1.122	Non-IFPS Aviation Forecast Products

Project Code	Project Code Description	Cost Object	Cost Object Description
8M4HL8	S&E COST MGT - FIRE WEATHER FCST PROD/CFG	1.123	Non-IFPS Fire Weather Forecast Products
8M4HL9	S&E COST MGT - SEVERE/HAZ WEATHER PROD/CFG	1.21	Severe/Hazardous Weather Products
8M4HLB	S&E COST MGT - TELECOMMUNICATIONS/CFG	2.4	Telecommunications Systems
8M4HLC	S&E COST MGT - ENVIRONMTL COMPLIANCE/CFG	6.2	Environmental Compliance
8M4HLD	S&E COST MGT - NCEP A -76 STUDIES/CFG	5.9	A-76 Studies
8M4HLL	S&E COST MGT - HRRCAE/TROP WEATH PROD/CFG	1.22	Hurricane/Tropical Weather Products
8M4HNR	S&E COST MGT - OTHER MGT ACTIVITIES/CFG	5.6	Other Management Activities
8M4HPD	S&E COST MGT - GEN PROFESSION DEV/CFG	5.5	General Professional Development
8M4HPS	S&E COST MGT - FACILITY PHYS SECURITY/CFG	5.5	General Professional Development
8M4HQ6	S&E COST MGT - SPC SUPPORT RENT/CFG	9.9	Miscellaneous
8M4HRH	S&E COST MGT - SERVICES &ED OUTREACH/CFG	4.2	Service & Education Outreach Programs
8M4HSY	S&E COST MGT - SAFETY & HEALTH COMPL/CFG	6.3	Safety and Health Compliance
8M4HTA	S&E COST MGT - INTERNATL/CFG	5.4	International Activities
8M4J10	S&E COST MGT - MISC. COSTS/LWF	9.9	Miscellaneous
8M4J18	S&E COST MGT - MISC COMMUNICATIONS/LWF	2.4	Telecommunications Systems
8M4J1A	S&E COST MGT - SLOSH RECALIBRATION/LWF	1.125	Non-IFPS Marine Weather Products
8M4J1E	S&E COST MGT - PAID SNOW OBSERVERS/LWF	2.18	Other Data Acquisition and Observing Systems
8M4J1F	S&E COST MGT - AMERICAN SAMOA/LWF	1.121	Non-IFPS Public Forecast Products
8M4J1K	S&E COST MGT - WAIVED COST REIMB/LWF	9.9	Miscellaneous
8M4J21	S&E COST MGT - CADAS COMMUNICATIONS/LWF	2.16	Hydrologic Systems
8M4J22	S&E COST MGT - OCEAN TECH INFUSION/LWF	3.3	Ocean Tech Infusion
8M4J24	S&E COST MGT - OTHER TECH INFUSION/LWF	3.5	Other Tech Infusion
8M4J26	S&E COST MGT - HYDROLOGIC SYSTEMS/LWF	2.16	Hydrologic Systems
8M4J31	S&E COST MGT - MARINE	2.17	Marine Weather Systems

Project Code	Project Code Description	Cost Object	Cost Object Description
	COMMUNICATIONS/LWF		
8M4J36	S&E COST MGT - MARINE WEATHER SYSTEMS/LWF	2.17	Marine Weather Systems
8M4J60	S&E COST MGT - TSUNAMI WARNINGS/LWF	1.23	Tsunami Warnings
8M4J71	PPA - AVIATION SAFETY	1.122	Aviation S&E Safety
8M4J72	PPA - AVIATION WEATHER	1.122	Aviation S&E Weather
8M4J90	S&E COST MGT - PUB/SEVERE WX WARN&FC/LWF	1.121	Non-IFPS Public Forecast Products
8M4JAD	S&E COST MGT - AWIPS DEVELOPMENT/LWF	2.211	AWIPS Development
8M4JAP	S&E COST MGT - AWIPS DEPLOYMENT/LWF	2.212	AWIPS Deployment
8M4JAQ	PPA - AIR QUALITY FORECAST. PILOT PROG	7.92	Air Quality
8M4JAS	S&E COST MGT - ASOS BASE O&M/LWF (NEED AUTH)	2.123	ASOS Operations and Maintenance
8M4JAW	S&E COST MGT - AWIPS BASE O & M/LWF(NEED AUTH)	2.213	AWIPS Operations and Maintenance
8M4JAY	S&E COST MGT - ASOS IT SEC TECH CTRL/LWF	2.124	ASOS IT Security Technical Controls
8M4JCM	S&E COST MGT - FACILITIES IMPROVEMENT/LWF	6.4	Facility Construction
8M4JCP	S&E COST MGT - COOP OBSERVER SYSTEM/LWF	2.15	Cooperative Observer System
8M4JCR	S&E COST MGT - COMBINED ROUTINE FCST/LWF	1.11	IFPS Forecast Product Generation
8M4JCW	S&E COST MGT - NORTHERN MARIANAS/LWF	2.123	ASOS Operations and Maintenance
8M4JCX	S&E COST MGT - WFO CONSTR/LWF(NON -CWIP) (NEED AUTH)	6.4	Facility Construction
8M4JDA	S&E COST MGT - OTHER DATA ACQ & OBS SYS/LWF	2.18	Other Data Acquisition and Observing Systems
8M4JDB	PPA - ALASKA DATA BUOYS	7.55	Data Buoys - Alaska (Earmark)
8M4JDE	S&E COST MGT - ASOS DEVELOPMENT/LWF	2.121	ASOS Development
8M4JDP	S&E COST MGT - ASOS DEPLOYMENT/LWF	2.122	ASOS Deployment
8M4JDS	S&E COST MGT - OTHER DISSEMINATION SYS/LWF	2.33	Other Dissemination Systems
8M4JEE	S&E COST MGT - DIVERSITY/EEO/LWF	5.2	Diversity/EEO
8M4JFR	S&E COST MGT - MANAGE FISCAL RESOURCES/LWF	5.3	Manage Fiscal Resources
8M4JGA	S&E COST MGT - GEN & ADMIN	5.7	Perform General/Admin. Work

Project Code	Project Code Description	Cost Object	Cost Object Description
	(AA OFF FUNCTION) LWF		
8M4JGE	S&E COST MGT - GEN & ADMIN (FMC OFF FUNCTION) LWF	5.7	Management/Adm
8M4JGS	S&E COST MGT - NWS GAINSHARING/LWF	5.7	Management/Adm
8M4JHP	PPA - AHPS PREDICTION SVCS (NON CWIP)	1.124	Non-IFPS Hydrologic Forecast Products
8M4JHR	S&E COST MGT - MANAGE HUMAN RESOURCES/LWF	5.1	Manage Human Resources
8M4JHT	PPA - HIGH RES TEMP FORECASTING	7.93	High Resolution Temperature Forecasts
8M4JL1	S&E COST MGT - MET TECH INFUSION/LWF	3.1	Meteorological Tech Infusion
8M4JL2	S&E COST MGT - CLIMATE TECH INFUSION/LWF	3.2	Climate Tech Infusion
8M4JL3	S&E COST MGT - PUBLIC FORECAST PRODUCTS/LWF	1.121	Non-IFPS Public Forecast Products
8M4JL4	S&E COST MGT - HYDROLOGIC FCST PROD/LWF	1.124	Non-IFPS Hydrologic Forecast Products
8M4JL5	S&E COST MGT - MARINE WEATHER PROD/LWF	1.125	Non-IFPS Marine Weather Products
8M4JL6	S&E COST MGT - CLIMATE PRODUCTS/LWF	1.126	Non-IFPS Climate Products
8M4JL7	S&E COST MGT - AVIATION FORECAST COST ACCUM/LWF	1.122	Non-IFPS Aviation Forecast Products
8M4JL8	S&E COST MGT - FIRE WEATHER FCST PROD/LWF	1.123	Non-IFPS Fire Weather Forecast Products
8M4JL9	S&E COST MGT - HAZARD/SEVERE WEATHER PROD/LWF	1.21	Severe/Hazardous Weather Products
8M4JLB	S&E COST MGT - TELECOMMUNICATIONS/LWF	2.4	Telecommunications Systems
8M4JLC	S&E COST MGT - ENVIRONMNTL COMPLIANCE/LWF	6.2	Environmental Compliance
8M4JLD	S&E COST MGT - A -76/LWF	5.9	A-76 Studies
8M4JLH	S&E COST MGT - AFOS COMMUNICATIONS/LWF	2.33	Other Dissemination Systems
8M4JLK	S&E COST MGT - MT. REDOUBT/LWF	2.18	Other Data Acquisition and Observing Systems
8M4JLL	S&E COST MGT - HURR TROP WEATHER FOR ADV WARNS/LWF	1.22	Hurricane/Tropical Weather Products
8M4JMC	PPA - MT WASHINGTON OBSERVATORY	7.57	Mt. Washington Observatory (Earmark)
8M4JMF	S&E COST MGT - OTHER FACIL RELATED COSTS/LWF	6.1	Maintain Facilities
8M4JMR	S&E COST MGT - MIRS/LWF	5.6	Other Management Activities

Project Code	Project Code Description	Cost Object	Cost Object Description
8M4JNC	PPA - NC FLOOD WARNING SYSTEM	7.91	NC Flood Plain Mapping Pilot (Earmark)
8M4JND	S&E COST MGT - NEXRAD DEVELOPMENT/LWF	2.111	NEXRAD Development
8M4JNP	S&E COST MGT - NEXRAD DEPLOYMENT/LWF	2.112	NEXRAD Deployment
8M4JNR	S&E COST MGT - OTHER MGT ACTIVITIES/LWF	5.6	Other Management Activities
8M4JNX	S&E COST MGT - NEXRAD O&M/LWF	2.113	NEXRAD Operations and Maintenance
8M4JPD	S&E COST MGT - GEN PROFESSIONAL DEV/LWF	5.5	General Professional Development
8M4JPE	S&E COST MGT - WFO HONOLULU PEAC/LWF	1.121	Non-IFPS Public Forecast Products
8M4JPF	S&E COST MGT - PROFILER/LWF	2.18	Other Data Acquisition and Observing Systems
8M4JPG	S&E COST MGT - PROCURE/MANAGE GOODS/LWF	5.7	Perform General/Admin. Work
8M4JPM	S&E COST MGT - PMO OUTREACH/LWF	4.2	Service & Education Outreach Programs
8M4JPP	S&E COST MGT - COOP OBS OUTREACH/LWF	4.1	Cooperative Observer Program
8M4JPS	PPA - FACILITIES PHYS SECURITY	7.82	Facilities Physical Security
8M4JR5	PPA - AGRICULTURAL WEATHER NETWORK - ND	7.61	NWR (Earmark) AGWX Network
8M4JR6	PPA - SUSTAIN COOP OBSERVER NETWORK	7.52	Cooperative Observer System (Earmark)
8M4JRG	S&E COST MGT - RECURRING MCI CHARGES/LWF	2.4	Telecommunications Systems
8M4JRH	S&E COST MGT - SERVICE & EDUCATION OUTREACH/LWF	4.2	Service & Education Outreach Programs
8M4JSA	S&E COST MGT - AWIPS IT SEC TECH CTRL/LWF	2.214	AWIPS IT Security Technical Controls
8M4JSF	S&E COST MGT - OTHER OBSERVING SYSTEMS/LWF	2.18	Other Data Acquisition and Observing Systems
8M4JSP	S&E COST MGT - IT SECURITY - - PROGRAM MGMT/LWF	5.8	IT Security--Program Management
8M4JSR	S&E COST MGT - SATELLITE SYSTEMS/LWF	2.14	Satellite Systems
8M4JSY	S&E COST MGT - SAFETY AND HEALTH COMPLIANCE/LWF	6.3	Safety and Health Compliance
8M4JTA	S&E COST MGT - INTERNATL ACTIVITIES/LWF	5.4	International Activities
8M4JTB	PPA - WEATHER RADIO TRANSMITTERS	7.61	NWR (Earmark)

Project Code	Project Code Description	Cost Object	Cost Object Description
8M4JTC	S&E COST MGT - IT SECURITY - TECH CONTROL SL/LWF	2.6	IT Security Technical Controls (All Other Systems)
8M4JTH	PPA - HIGH RES TEMP FORECASTING	7.93	High Resolution Temperature Forecasts
8M4JTT	S&E COST MGT - OTHER INFORMATION TECH/LWF	2.5	Other IT Systems
8M4JUA	S&E COST MGT - UPPER AIR PROGRAM/LWF	2.13	Upper Air/Radiosonde
8M4JVA	S&E COST MGT - VOLCANIC ASH FORECAST PROD/LWF	1.24	Volcanic Ash Forecast Products
8M4JWB	S&E COST MGT - WEATH/CLIM BACKUP SUPERCOMP BASE/LWF	2.23	Weather and Climate Back Up Supercomputer O&M
8M4JWC	S&E COST MGT - NWR OUTREACH/LWF	4.2	Service & Education Outreach Programs
8M4JWE	S&E COST MGT - NWWS/EMWIN/LWF	2.32	NWWS/EMWIN
8M4JWM	S&E COST MGT - W/C PRIM. SUPERCOMPUTER BASE/LWF	2.22	Weather and Climate Primary Supercomputer O&M
8M4JWR	S&E COST MGT - NOAA WEATHER RADIO/LWF	2.31	NWR/CRS
8M4JWT	PPA - NEW ENGLAND WEATHER INITIATIVE	7.54	New England Technology Initiative
8M4JXL	S&E COST MGT - LABOR DEFAULT/LWF *PERMISSION REQ*	5.7	Management/Adm
8M4JYT	S&E COST MGT - HYDROLOGIC TECH INFUS/LWF	3.4	Hydrological Tech Infusion
8M4LAW	S&E SYS PPA - AWIPS OPERATIONS & MAINT	2.213	AWIPS Operations and Maintenance
8M4LAX	S&E SYS PPA - ASOS PROGRAM MGMT	2.123	S&E ASOS O&M
8M4LBS	S&E SYS PPA - GATEWAY BACKUP	2.4	Telecommunications Systems
8M4LNX	S&E SYS PPA - NEXRAD PROGRAM MGMT	2.113	S&E Systems NEXRAD Program Mgt.
8M4T72	PURCHASE FOR NLSC INVENTORY(CAPITAL)	9.9	Miscellaneous
8M4T73	ISSUES FROM NLSC INVENTORY(CAPITALIZED)	9.9	Miscellaneous
8M4T74	ADJUSTMENTS TO NLSC INVENTORY(CAP EQUIP)	9.9	Miscellaneous
8M4T75	TRANSFERS TO NLSC INVENTORY(CAP. EQUIP.)	9.9	Miscellaneous
8M4T76	EXCESS ACCT. NLSC	9.9	Miscellaneous
8M4T77	OFFSET FOR NLSC INVENTORY TRANS	9.9	Miscellaneous

Project Code	Project Code Description	Cost Object	Cost Object Description
8M4T91	PURCHASE FOR NLSC INVENTORY	9.9	Miscellaneous
8M4T93	ISSUES FROM NLSC INVENTORY	9.9	Miscellaneous
8M4T94	ADJUSTMENTS TO NLSC INVENTORY	9.9	Miscellaneous
8M4T95	TRANSFERS TO NLSC INVENTORY	9.9	Miscellaneous
8M4T96	EXCESS EXPENDABLE NLSC INVENTORY	9.9	Miscellaneous
8M4T97	OFFSET FOR NLSC INVENTORY TRANS.	9.9	Miscellaneous
8W4893	NLSC SURCHARGE ACCOUNT	1.121	Non-IFPS Public Forecast Products
8W4C88	RECOVERY EXP - QUARTERS REIMBURSEMENT	6.4	Facility Construction

APPENDIX 4 -- Quick Reference Guide -- Cost Objects

Cost Object	Cost Object Description	Project Code	Project Code Description
1.11	IFPS Forecast Product Generation	8M4JCR	S&E COST MGT - COMBINED ROUTINE FCST/LWF
1.121	Non-IFPS Public Forecast Products	8M4HL3	S&E COST MGT - PUBLIC FORECAST PRODS/CFG
1.121	Non-IFPS Public Forecast Products	8M4J1F	S&E COST MGT - AMERICAN SAMOA/LWF
1.121	Non-IFPS Public Forecast Products	8M4J90	S&E COST MGT - PUB/SEVERE WX WARN&FC/LWF
1.121	Non-IFPS Public Forecast Products	8M4JL3	S&E COST MGT - PUBLIC FORECAST PRODUCTS/LWF
1.121	Non-IFPS Public Forecast Products	8M4JPE	S&E COST MGT - WFO HONOLULU PEAC/LWF
1.121	Non-IFPS Public Forecast Products	8W4893	NLSC SURCHARGE ACCOUNT
1.122	Aviation S&E Safety	8M4J71	PPA - AVIATION SAFETY
1.122	Aviation S&E Weather	8M4J72	PPA - AVIATION WEATHER
1.122	Non-IFPS Aviation Forecast Products	8M4HL7	S&E COST MGT - AVIATION FORECAST PROD/CFG
1.122	Non-IFPS Aviation Forecast Products	8M4JL7	S&E COST MGT - AVIATION FORECAST COST ACCUM/LWF
1.123	Non-IFPS Fire Weather Forecast Products	8M4HL8	S&E COST MGT - FIRE WEATHER FCST PROD/CFG
1.123	Non-IFPS Fire Weather Forecast Products	8M4JL8	S&E COST MGT - FIRE WEATHER FCST PROD/LWF
1.124	Non-IFPS Hydrologic Forecast Products	8M4HL4	S&E COST MGT - HYDRO FORECAST PRODS/CFG
1.124	Non-IFPS Hydrologic Forecast Products	8M4JHP	PPA - AHPS PREDICTION SVCS (NON CWIP)
1.124	Non-IFPS Hydrologic Forecast Products	8M4JL4	S&E COST MGT - HYDROLOGIC FCST PROD/LWF
1.125	Non-IFPS Marine Weather Products	8M4HL5	S&E COST MGT - MARINE WEATHER PRODS/CFG
1.125	Non-IFPS Marine Weather Products	8M4J1A	S&E COST MGT - SLOSH RECALIBRATION/LWF
1.125	Non-IFPS Marine Weather Products	8M4JL5	S&E COST MGT - MARINE WEATHER PROD/LWF
1.126	Non-IFPS Climate Products	8M4HL6	S&E COST MGT - CLIMATE PRODUCTS/CFG
1.126	Non-IFPS Climate Products	8M4JL6	S&E COST MGT - CLIMATE PRODUCTS/LWF

Cost Object	Cost Object Description	Project Code	Project Code Description
1.21	Severe/Hazardous Weather Products	8M4HL9	S&E COST MGT - SEVERE/HAZ WEATHER PROD/CFG
1.21	Severe/Hazardous Weather Products	8M4JL9	S&E COST MGT - HAZARD/SEVERE WEATHER PROD/LWF
1.22	Hurricane/Tropical Weather Products	8M4HLL	S&E COST MGT - HRRCAN/TROP WEATH PROD/CFG
1.22	Hurricane/Tropical Weather Products	8M4JLL	S&E COST MGT - HURR TROP WEATHER FOR ADV WARNS/LWF
1.23	Tsunami Warnings	8M4J60	S&E COST MGT - TSUNAMI WARNINGS/LWF
1.24	Volcanic Ash Forecast Products	8M4JVA	S&E COST MGT - VOLCANIC ASH FORECAST PROD/LWF
2.111	NEXRAD Development	8M4JND	S&E COST MGT - NEXRAD DEVELOPMENT/LWF
2.112	NEXRAD Deployment	8M4JNP	S&E COST MGT - NEXRAD DEPLOYMENT/LWF
2.113	NEXRAD Operations and Maintenance	8M4JNX	S&E COST MGT - NEXRAD O&M/LWF
2.113	S&E Systems NEXRAD Program Mgt.	8M4LNX	S&E SYS PPA - NEXRAD PROGRAM MGMT
2.121	ASOS Development	8M4JDE	S&E COST MGT - ASOS DEVELOPMENT/LWF
2.122	ASOS Deployment	8M4JDP	S&E COST MGT - ASOS DEPLOYMENT/LWF
2.123	ASOS Operations and Maintenance	8M4JAS	S&E COST MGT - ASOS BASE O&M/LWF (NEED AUTH)
2.123	ASOS Operations and Maintenance	8M4JCW	S&E COST MGT - NORTHERN MARIANAS/LWF
2.123	S&E ASOS O&M	8M4LAX	S&E SYS PPA - ASOS PROGRAM MGMT
2.124	ASOS IT Security Technical Controls	8M4JAY	S&E COST MGT - ASOS IT SEC TECH CTRL/LWF
2.13	Upper Air/Radiosonde	8M4JUA	S&E COST MGT - UPPER AIR PROGRAM/LWF
2.14	Satellite Systems	8M4JSR	S&E COST MGT - SATELLITE SYSTEMS/LWF
2.15	Cooperative Observer System	8M4JCP	S&E COST MGT - COOP OBSERVER SYSTEM/LWF
2.16	Hydrologic Systems	8M4J21	S&E COST MGT - CADAS COMMUNICATIONS/LWF
2.16	Hydrologic Systems	8M4J26	S&E COST MGT - HYDROLOGIC SYSTEMS/LWF
2.17	Marine Weather Systems	8M4J31	S&E COST MGT - MARINE COMMUNICATIONS/LWF
2.17	Marine Weather Systems	8M4J36	S&E COST MGT - MARINE WEATHER SYSTEMS/LWF

Cost Object	Cost Object Description	Project Code	Project Code Description
2.18	Other Data Acquisition and Observing Systems	8M4J1E	S&E COST MGT - PAID SNOW OBSERVERS/LWF
2.18	Other Data Acquisition and Observing Systems	8M4JDA	S&E COST MGT - OTHER DATA ACQ & OBS SYS/LWF
2.18	Other Data Acquisition and Observing Systems	8M4JLK	S&E COST MGT - MT. REDOUBT/LWF
2.18	Other Data Acquisition and Observing Systems	8M4JPF	S&E COST MGT - PROFILER/LWF
2.18	Other Data Acquisition and Observing Systems	8M4JSF	S&E COST MGT - OTHER OBSERVING SYSTEMS/LWF
2.211	AWIPS Development	8M4H11	S&E COST MGT - AWIPS DEVELOPMENT/CFG
2.211	AWIPS Development	8M4JAD	S&E COST MGT - AWIPS DEVELOPMENT/LWF
2.212	AWIPS Deployment	8M4JAP	S&E COST MGT - AWIPS DEPLOYMENT/LWF
2.213	AWIPS Operations and Maintenance	4M4LAW	S&E SYS PPA - AWIPS (CWIP)(NEED AUTHORIZATION)
2.213	AWIPS Operations and Maintenance	8M4JAW	S&E COST MGT - AWIPS BASE O & M/LWF(NEED AUTH)
2.213	AWIPS Operations and Maintenance	8M4LAW	S&E SYS PPA - AWIPS OPERATIONS & MAINT
2.214	AWIPS IT Security Technical Controls	8M4JSA	S&E COST MGT - AWIPS IT SEC TECH CTRL/LWF
2.22	Weather and Climate Primary Supercomputer O&M	8M4H15	S&E COST MGT - SUPERCOMPUTER FROM BASE/CFG
2.22	Weather and Climate Primary Supercomputer O&M	8M4JWM	S&E COST MGT - W/C PRIM. SUPERCOMPUTER BASE/LWF
2.23	Weather and Climate Back Up Supercomputer O&M	8M4H16	S&E COST MGT - BACKUP SUPERCOMP BASE/CFG
2.23	Weather and Climate Back Up Supercomputer O&M	8M4JWB	S&E COST MGT - WEATH/CLIM BACKUP SUPERCOMP BASE/LWF
2.31	NWR/CRS	8M4JWR	S&E COST MGT - NOAA WEATHER RADIO/LWF
2.32	NWWS/EMWIN	8M4JWE	S&E COST MGT - NWWS/EMWIN/LWF
2.33	Other Dissemination Systems	8M4JDS	S&E COST MGT - OTHER DISSEMINATION SYS/LWF
2.33	Other Dissemination Systems	8M4JLH	S&E COST MGT - AFOS COMMUNICATIONS/LWF
2.4	Telecommunications Systems	8M4H12	S&E COST MGT - FACSIMILE COMM/CFG
2.4	Telecommunications Systems	8M4HLB	S&E COST MGT - TELECOMMUNICATIONS/CFG
2.4	Telecommunications Systems	8M4J18	S&E COST MGT - MISC COMMUNICATIONS/LWF

Cost Object	Cost Object Description	Project Code	Project Code Description
2.4	Telecommunications Systems	8M4JLB	S&E COST MGT - TELECOMMUNICATIONS/LWF
2.4	Telecommunications Systems	8M4JRG	S&E COST MGT - RECURRING MCI CHARGES/LWF
2.4	Telecommunications Systems	8M4LBS	S&E SYS PPA - GATEWAY BACKUP
2.5	Other IT Systems	8M4H14	S&E COST MGT - OTHER INFORMATION TECH/CFG
2.5	Other IT Systems	8M4JTT	S&E COST MGT - OTHER INFORMATION TECH/LWF
2.6	IT Security Technical Controls (All Other Systems)	8M4H13	S&E COST MGT - IT SECURITY TECH CONTRL/CFG
2.6	IT Security Technical Controls (All Other Systems)	8M4JTC	S&E COST MGT - IT SECURITY - TECH CONTROL/SL/LWF
3.1	Meteorological Tech Infusion	8M4HL1	S&E COST MGT - METEOROLOGIC TECH INFUSN/CFG
3.1	Meteorological Tech Infusion	8M4JL1	S&E COST MGT - MET TECH INFUSION/LWF
3.2	Climate Tech Infusion	8M4HL2	S&E COST MGT - CLIMATE TECH INFUSION/CFG
3.2	Climate Tech Infusion	8M4JL2	S&E COST MGT - CLIMATE TECH INFUSION/LWF
3.3	Ocean Tech Infusion	8M4H22	S&E COST MGT - OCEAN TECH INFUSION/CFG
3.3	Ocean Tech Infusion	8M4J22	S&E COST MGT - OCEAN TECH INFUSION/LWF
3.4	Hydrological Tech Infusion	8M4H23	S&E COST MGT - HYDROLOGIC TECH INFUSN/CFG
3.4	Hydrological Tech Infusion	8M4JYT	S&E COST MGT - HYDROLOGIC TECH INFUS/LWF
3.5	Other Tech Infusion	8M4H24	S&E COST MGT - OTHER TECH INFUSION/CFG
3.5	Other Tech Infusion	8M4J24	S&E COST MGT - OTHER TECH INFUSION/LWF
4.1	Cooperative Observer Program	8M4JPP	S&E COST MGT - COOP OBS OUTREACH/LWF
4.2	Service & Education Outreach Programs	8M4HRH	S&E COST MGT - SERVICES & ED OUTREACH/CFG
4.2	Service & Education Outreach Programs	8M4JPM	S&E COST MGT - PMO OUTREACH/LWF
4.2	Service & Education Outreach Programs	8M4JRH	S&E COST MGT - SERVICE & EDUCATION OUTREACH/LWF
4.2	Service & Education Outreach Programs	8M4JWC	S&E COST MGT - NWR OUTREACH/LWF
5.1	Manage Human Resources	8M4HHR	S&E COST MGT - MANAGE HUMAN RESOURCES/CFG

Cost Object	Cost Object Description	Project Code	Project Code Description
5.1	Manage Human Resources	8M4JHR	S&E COST MGT - MANAGE HUMAN RESOURCES/LWF
5.2	Diversity/EEO	8M4HEE	S&E COST MGT - DIVERSITY & EEO/CFG
5.2	Diversity/EEO	8M4JEE	S&E COST MGT - DIVERSITY/EEO/LWF
5.3	Manage Fiscal Resources	8M4HFR	S&E COST MGT - MANAGE FISCAL RESOURCES/CFG
5.3	Manage Fiscal Resources	8M4JFR	S&E COST MGT - MANAGE FISCAL RESOURCES/LWF
5.4	International Activities	8M4HTA	S&E COST MGT - INTERNATL/CFG
5.4	International Activities	8M4JTA	S&E COST MGT - INTERNATL ACTIVITIES/LWF
5.5	General Professional Development	8M4HPD	S&E COST MGT - GEN PROFESSION DEV/CFG
5.5	General Professional Development	8M4HPS	S&E COST MGT - FACILITY PHYS SECURITY/CFG
5.5	General Professional Development	8M4JPD	S&E COST MGT - GEN PROFESSIONAL DEV/LWF
5.6	Other Management Activities	8M4HNR	S&E COST MGT - OTHER MGT ACTIVITIES/CFG
5.6	Other Management Activities	8M4JMR	S&E COST MGT - MIRS/LWF
5.6	Other Management Activities	8M4JNR	S&E COST MGT - OTHER MGT ACTIVITIES/LWF
5.7	Perform General/Admin. Work	8M4HGA	S&E COST MGT - PERFORM GEN/ADMIN WORK/CFG
5.7	Management/Adm	8M4HGE	S&E COST MGT - GEN OFFICE ADMIN EXP/CFG
5.7	Management/Adm	8M4HGS	S&E COST MGT - NCEP GAINSHARING/CFG
5.7	Perform General/Admin. Work	8M4JGA	S&E COST MGT - GEN & ADMIN (AA OFF FUNCTION) LWF
5.7	Management/Adm	8M4JGE	S&E COST MGT - GEN & ADMIN (FMC OFF FUNCTION) LWF
5.7	Management/Adm	8M4JGS	S&E COST MGT - NWS GAINSHARING/LWF
5.7	Perform General/Admin. Work	8M4JPG	S&E COST MGT - PROCURE/MANAGE GOODS/LWF
5.7	Management/Adm	8M4JXL	S&E COST MGT - LABOR DEFAULT/LWF *PERMISSION REQ*
5.8	IT Security--Program Management	8M4JSP	S&E COST MGT - IT SECURITY - - PROGRAM MGMT/LWF
5.9	A-76 Studies	8M4HLD	S&E COST MGT - NCEP A -76 STUDIES/CFG
5.9	A-76 Studies	8M4JLD	S&E COST MGT - A -76/LWF

Cost Object	Cost Object Description	Project Code	Project Code Description
6.1	Maintain Facilities	8M4JMF	S&E COST MGT - OTHER FACIL RELATED COSTS/LWF
6.2	Environmental Compliance	8M4HLC	S&E COST MGT - ENVIRONMTL COMPLIANCE/CFG
6.2	Environmental Compliance	8M4JLC	S&E COST MGT - ENVIRONMNTL COMPLIANCE/LWF
6.3	Safety and Health Compliance	8M4HSY	S&E COST MGT - SAFETY & HEALTH COMPL/CFG
6.3	Safety and Health Compliance	8M4JSY	S&E COST MGT - SAFETY AND HEALTH COMPLIANCE/LWF
6.4	Facility Construction	8M4JCM	S&E COST MGT - FACILITIES IMPROVEMENT/LWF
6.4	Facility Construction	8M4JCX	S&E COST MGT - WFO CONSTR/LWF(NON -CWIP) (NEED AUTH)
6.4	Facility Construction	8W4C88	RECOVERY EXP - QUARTERS REIMBURSEMENT
7.11	NWS Construction (Earmark) St. Paul	2MF4A4	PPA - WFO CONST.- PAC (ST PAUL WSO) (CWIP)
7.11	NWS Construction (Earmark) ATWC	2MF4A5	PPA - WFO CONST.- PAC (ATWC) (CWIP)
7.11	NWS Construction (Earmark) Sterling	2MF4BC	PPA - WFO CONST.- PAC (STERLING EXPAN) (CWIP)
7.11	NWS Construction (Earmark) Caribou	2MF4CM	PPA - WFO CONST.- PAC (CARIBOU WFO) (CWIP)
7.11	NWS Construction (Earmark) Key West	2MF4KW	PPA - WFO CONST.- PAC (KEY WEST WFO) (CWIP)
7.11	NWS Construction (Earmark) American Samoa	2MF4P1	PPA - WFO CONST.- PAC (AMERICAN SAMOA WSO) (CWIP)
7.11	NWS Construction (Earmark) Hilo DCO	2MF4P2	PPA - WFO CONST.- PAC (HILO DCO) (CWIP)
7.14	WFO Maintenance (Earmark)	2MS401	PPA - WFO MAINTENANCE (NON-CWIP)
7.21	ASOS Development (Earmark)	2MS1A6	PPA - ASOS - PAC (NON-CWIP)
7.31	AWIPS Development (Earmark)	2MF1WF	PPA - AWIPS/NOAA PORT- PAC (CWIP)
7.31	AWIPS Development (Earmark)	2MS1W6	PPA - AWIPS - PAC (NON-CWIP)
7.41	NEXRAD Development (Earmark)	2MF1NF	PPA - NEXRAD PI - PAC (CWIP)
7.41	NEXRAD Development (Earmark)	2MS1N6	PPA - NEXRAD - PAC (NON-CWIP)
7.46	WSR-88D (Earmark)	4M4L88	S&E SYS PPA - WSR88D (CWIP)
7.51	Radiosonde Replacement (Earmark)	2MF1RF	PPA - RADIOSONDE REPLACEMENT SYS PAC (CWIP)

Cost Object	Cost Object Description	Project Code	Project Code Description
7.51	Radiosonde Replacement (Earmark)	2MS1R6	PPA - RADIOSONDE NETWRK REPL - PAC (NON-CWIP)
7.52	Cooperative Observer System (Earmark)	8M4JR6	PPA - SUSTAIN COOP OBSERVER NETWORK
7.54	New England Technology Initiative	8M4JWT	PPA - NEW ENGLAND WEATHER INITIATIVE
7.55	Data Buoys - Alaska (Earmark)	8M4JDB	PPA - ALASKA DATA BUOYS
7.57	Mt. Washington Observatory (Earmark)	8M4JMC	PPA - MT WASHINGTON OBSERVATORY
7.61	NWR (Earmark) AGWX Network	8M4JR5	PPA - AGRICULTURAL WEATHER NETWORK - ND
7.61	NWR (Earmark)	8M4JTB	PPA - WEATHER RADIO TRANSMITTERS
7.71	Central Computer Upgrade (Earmark)	2MS140	PPA - WEATHER & CLIM SUPERCOMP - PAC
7.73	NWSTG Backup (Earmark)	2MS1TG	PPA - NWSTG BACK-UP - PAC
7.82	Facilities Physical Security	8M4JPS	PPA - FACILITIES PHYS SECURITY
7.91	NC Flood Plain Mapping Pilot (Earmark)	8M4JNC	PPA - NC FLOOD WARNING SYSTEM
7.92	Air Quality	8M4JAQ	PPA - AIR QUALITY FORECAST. PILOT PROG
7.93	High Resolution Temperature Forecasts	8M4JHT	PPA - HIGH RES TEMP FORECASTING
7.93	High Resolution Temperature Forecasts	8M4JTH	PPA - HIGH RES TEMP FORECASTING
9.9	NWS Construction (Earmark)	2MS400	PPA - WFO CONSTRUCTION (NON-CWIP)
9.9	Miscellaneous	2MS4P1	NON-CWIP WSO PAGO PAGO AMERICAN SAMOA
9.9	Miscellaneous	2MS4P2	NON-CWIP DCO HILO
9.9	Miscellaneous	4M4JHP	PPA - AHPS DEVELOPMENT (CWIP)
9.9	Miscellaneous	4M4LAS	S&E SYS PPA - ASOS PI (CWIP)(NEED AUTHORIZATION)
9.9	Miscellaneous	8M4H10	S&E COST MGT - GEN WEATHER GUIDANCE/CFG
9.9	Miscellaneous	8M4HQ6	S&E COST MGT - SPC SUPPORT RENT/CFG
9.9	Miscellaneous	8M4J10	S&E COST MGT - MISC. COSTS/LWF
9.9	Miscellaneous	8M4J1K	S&E COST MGT - WAIVED COST REIMB/LWF
9.9	Miscellaneous	8M4T72	PURCHASE FOR NLSC INVENTORY(CAPITAL)
9.9	Miscellaneous	8M4T73	ISSUES FROM NLSC INVENTORY(CAPITALIZED)

Cost Object	Cost Object Description	Project Code	Project Code Description
9.9	Miscellaneous	8M4T74	ADJUSTMENTS TO NLSC INVENTORY(CAP EQUIP)
9.9	Miscellaneous	8M4T75	TRANSFERS TO NLSC INVENTORY(CAP. EQUIP.)
9.9	Miscellaneous	8M4T76	EXCESS ACCT. NLSC
9.9	Miscellaneous	8M4T77	OFFSET FOR NLSC INVENTORY TRANS
9.9	Miscellaneous	8M4T91	PURCHASE FOR NLSC INVENTORY
9.9	Miscellaneous	8M4T93	ISSUES FROM NLSC INVENTORY
9.9	Miscellaneous	8M4T94	ADJUSTMENTS TO NLSC INVENTORY
9.9	Miscellaneous	8M4T95	TRANSFERS TO NLSC INVENTORY
9.9	Miscellaneous	8M4T96	EXCESS EXPENDABLE NLSC INVENTORY
9.9	Miscellaneous	8M4T97	OFFSET FOR NLSC INVENTORY TRANS.